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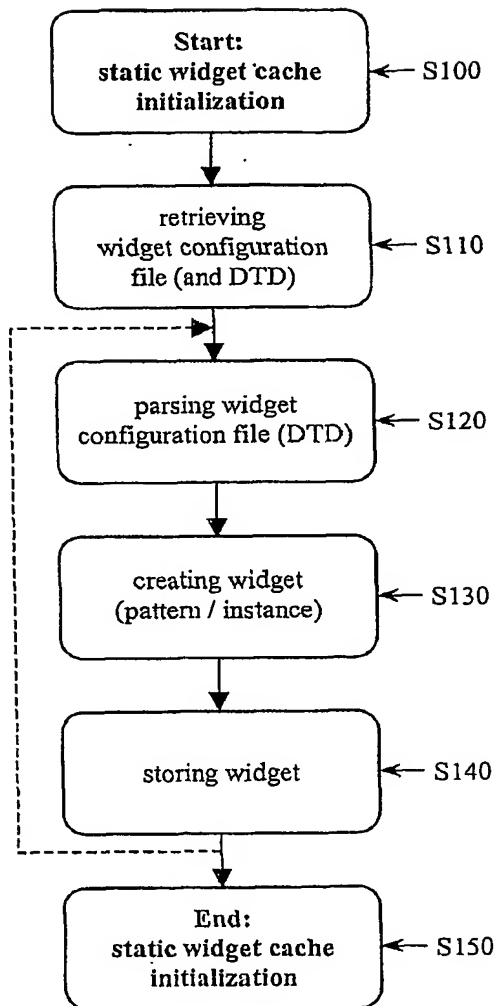


Fig. 1a

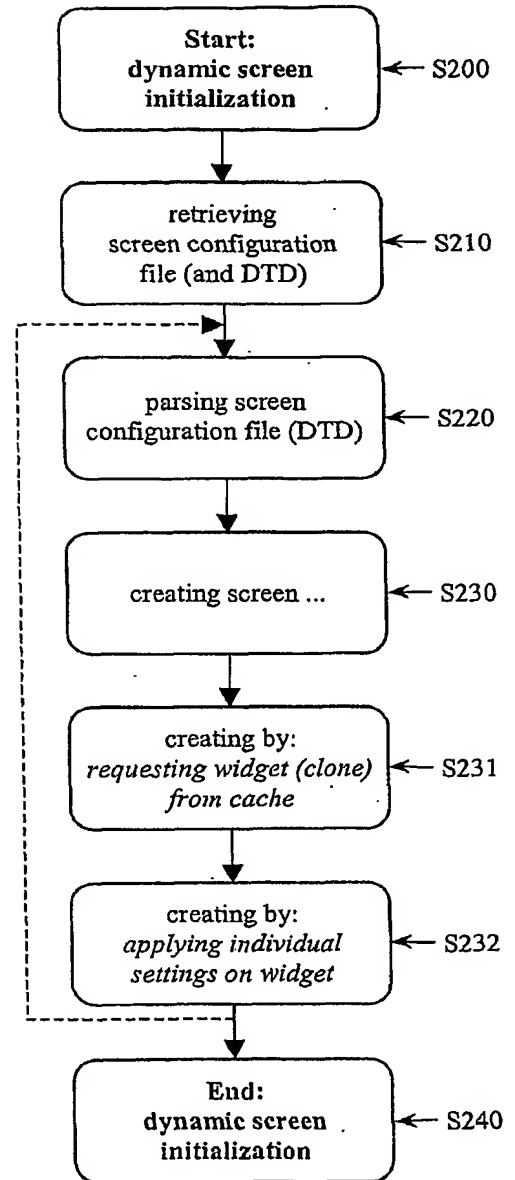


Fig. 1b

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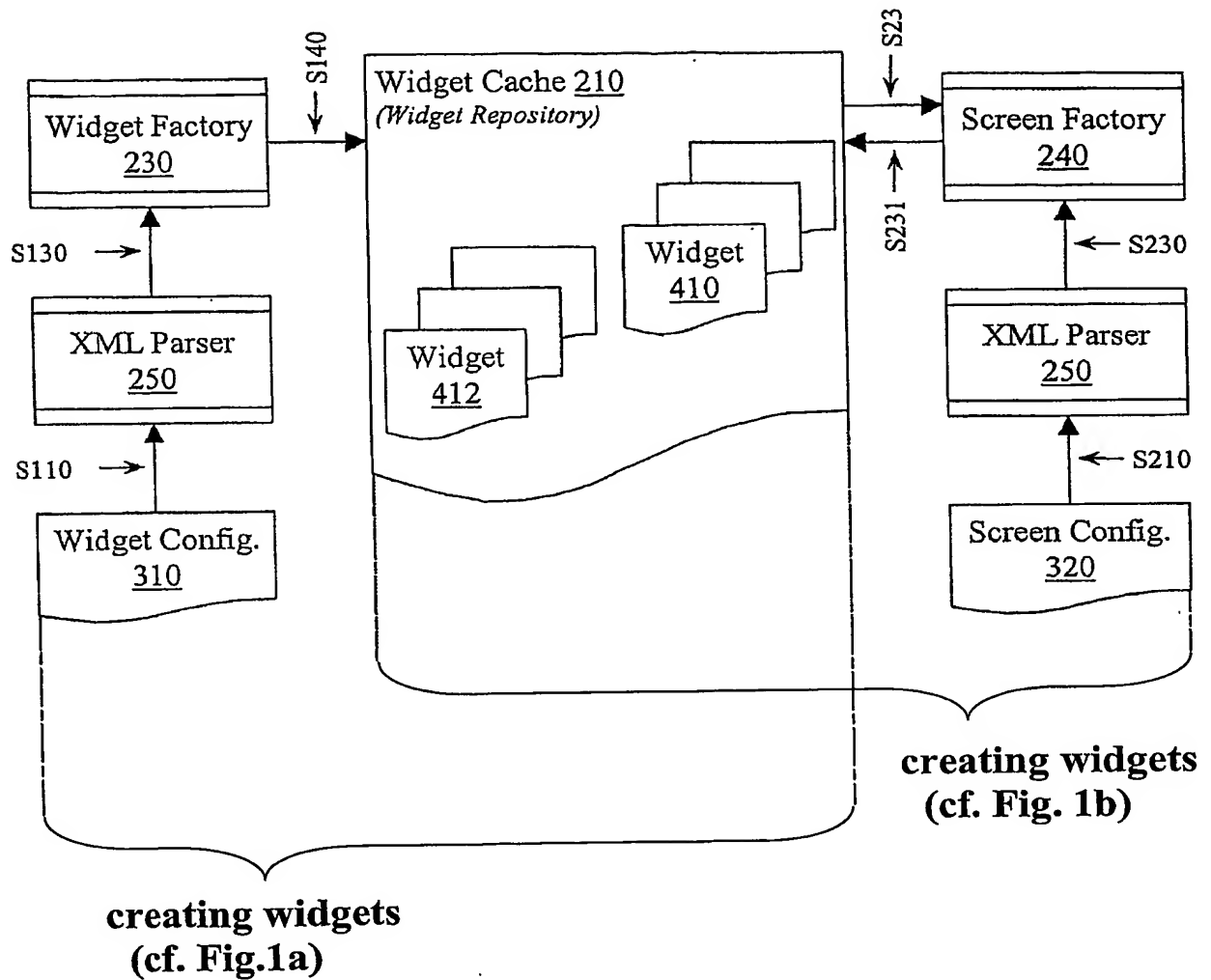


Fig.1c

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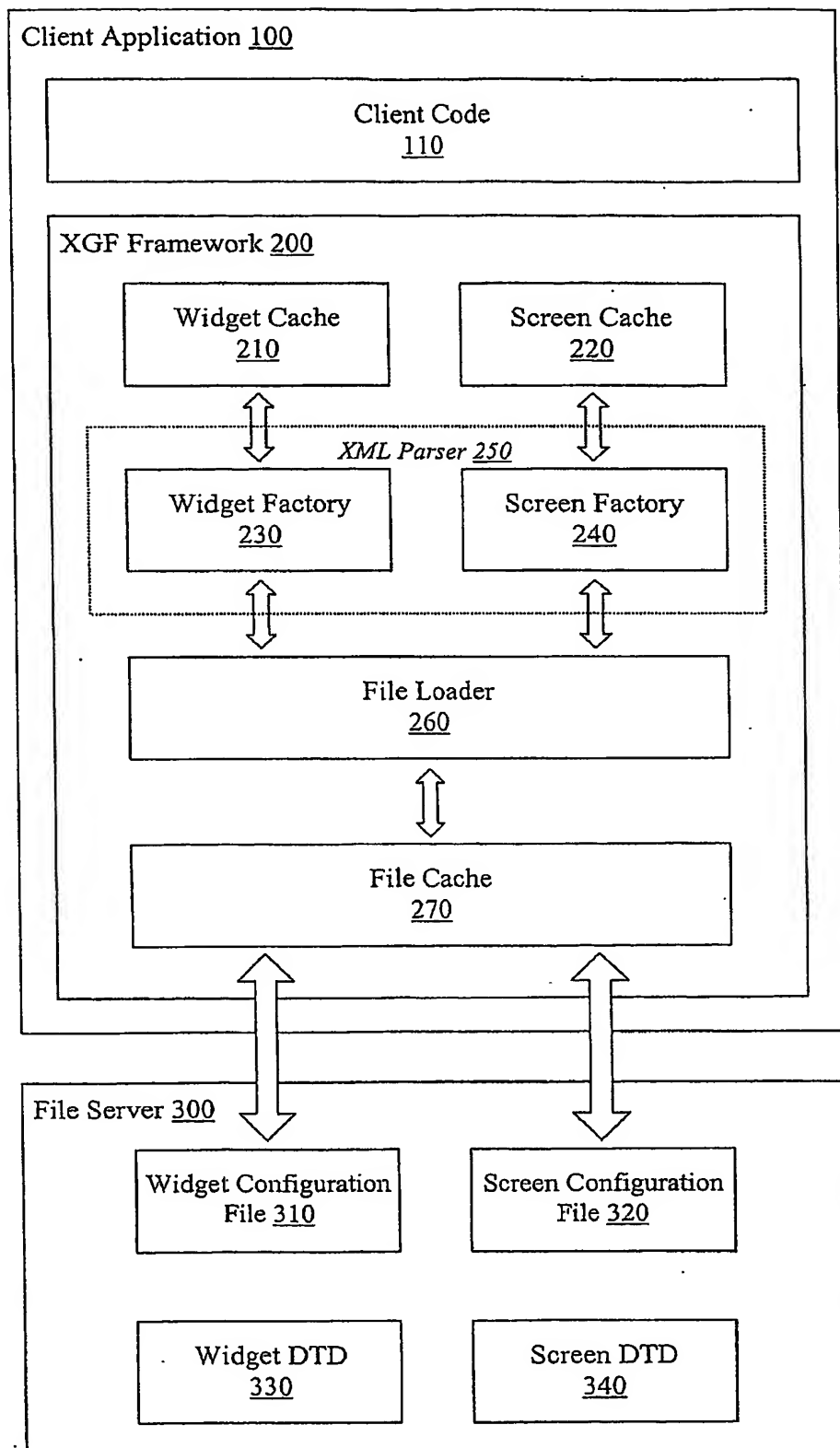


Fig. 2

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```

1:  <?xml version="1.0" encoding="ISO-8859-1"?>
2:  <!ELEMENT widgetdefinition (panel | button | listbox | textbox | label | gridlayout | flowlayout | tabpane)*>
3:  <!ATTLIST widgetdefinition
4:      laf (Metal | Motif | Windows | Mac) #REQUIRED
5:  >
6:  <!ELEMENT panel (flowlayout | bevelborder)>
7:  <!ATTLIST panel
8:      class CDATA #REQUIRED
9:      font CDATA #IMPLIED
10: >
11: <!ELEMENT label ((bevelborder)?, font?)*>
12: <!ATTLIST label
13:     class CDATA #REQUIRED
14:     font CDATA #IMPLIED
15: >
16: <!ELEMENT button ((bevelborder)?, font?)*>
17: <!ATTLIST button
18:     class CDATA #REQUIRED
19:     name CDATA #IMPLIED
20: >
21: <!ELEMENT textbox ((bevelborder)?, font?)*>
22: <!ATTLIST textbox
23:     class CDATA #REQUIRED
24:     name CDATA #IMPLIED
25: >
26: <!ELEMENT gridlayout EMPTY>
27: <!ATTLIST gridlayout
28:     class CDATA #REQUIRED
29: >
30: <!ELEMENT bevelborder EMPTY>
31: <!ATTLIST bevelborder
32:     class CDATA #FIXED "javax.swing.border.BevelBorder"
33:     border (LOWERED | RAISED) #REQUIRED
34: >
35: <!ELEMENT flowlayout EMPTY>
36: <!ATTLIST flowlayout
37:     class CDATA #REQUIRED
38: >
39: <!ELEMENT font EMPTY>
40: <!ATTLIST font
41:     name CDATA #REQUIRED
42:     size CDATA #REQUIRED
43:     style (PLAIN | BOLD | ITALIC) #REQUIRED
44:     class CDATA #FIXED "java.awt.Font"
45: >
46: <!ELEMENT tabpane (#PCDATA)>
47: <!ATTLIST tabpane
48:     class CDATA #REQUIRED
49: >

```

... continues ...

Fig. 3a

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```
1:  <?xml version="1.0" encoding="ISO-8859-1"?>
2:  <!DOCTYPE widgetdefinition SYSTEM "WidgetDefinition.dtd">
3:  <widgetdefinition laf="Metal">
4:      <button class="javax.swing.JButton">
5:          <font name="TimesRoman" size="10" style="PLAIN"/>
6:      </button>
7:      <panel class="javax.swing.JPanel">
8:          <bevelborder border="LOWERCED"/>
9:      </panel>
10:     <listbox class="javax.swing.JList">
11:         <font name="Arial" size="18" style="PLAIN"/>
12:         <bevelborder border="LOWERCED"/>
13:     </listbox>
14:     <textbox class="javax.swing.JTextField">
15:         <font name="Arial" size="10" style="PLAIN"/>
16:         <bevelborder border="LOWERCED"/>
17:     </textbox>
18:     <gridlayout class="java.awt.GridLayout"/>
19:     <flowlayout class="java.awt.FlowLayout"/>
20:     <label class="javax.swing.JLabel">
21:         <font name="Arial" size="10" style="BOLD"/>
22:         <bevelborder border="LOWERCED"/>
23:     </label>
24:     <tabpane class="javax.swing.JTabbedPane"/>
25: </widgetdefinition>
```

Fig. 3b

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```
1:  <?xml version="1.0" encoding="ISO-8859-1"?>
2:  <!ELEMENT screen (panel)>
3:  <!ATTLIST screen
4:      name CDATA #IMPLIED
5:      class CDATA #REQUIRED
6:  >
7:  <!ELEMENT panel ((gridlayout), (panel | label | textbox | button | listbox | table | tree)+)+>
8:  <!ATTLIST panel
9:      name CDATA #REQUIRED
10: >
11: <!ELEMENT label EMPTY>
12: <!ATTLIST label
13:     name CDATA #REQUIRED
14:     listener CDATA #IMPLIED
15:     layoutManager CDATA #IMPLIED
16: >
17: <!ELEMENT textbox (#PCDATA)>
18: <!ATTLIST textbox
19:     dataobjectCDATA #REQUIRED
20:     attribute CDATA #REQUIRED
21:     name CDATA #REQUIRED
22:     listener NOTATION (ChangeListener | FocusListener) #IMPLIED
23:     layoutManager CDATA #IMPLIED
24: >
25: <!ELEMENT button EMPTY>
26: <!ATTLIST button
27:     dataobjectCDATA #IMPLIED
28:     name CDATA #REQUIRED
29:     listener NOTATION (ChangeListener | FocusListener) #REQUIRED
30:     target NOTATION (screen | dataobject) #REQUIRED
31:     layoutManager CDATA #IMPLIED
32: >
```

... continues ...

Fig. 4a

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```

1:  <?xml version="1.0" encoding="ISO-8859-1"?>
2:  <!DOCTYPE screen SYSTEM "screen.dtd">
3:  <screen name="Sample Screen" class="xgx.screen.AccountView">
4:    <panel name="Accounts">
5:      <gridlayout row="3" col="3"/>
6:      <label name="Account"/>
7:      <textbox name="lb_account" attribute="account_no" dataobject="Accounts" listener="ChangeListener"/>
8:      <button name="Search" dataobject="Accounts" listener="ChangeListener" target="screen"/>
9:      <label name="Contract"/>
10:     <listbox name="account_no" dataobject="Accounts" attribute="account_no" listener="FocusListener"/>
11:     <panel name="test">
12:       <gridlayout row="1" col="2"/>
13:       <button dataobject="Accounts" name="Ok" target="screen" listener="ChangeListener"/>
14:       <button dataobject="Accounts" name="Cancel" target="dataobject" listener="FocusListener"/>
15:     </panel>
16:   </panel>
17: </screen>

```

Fig. 4b

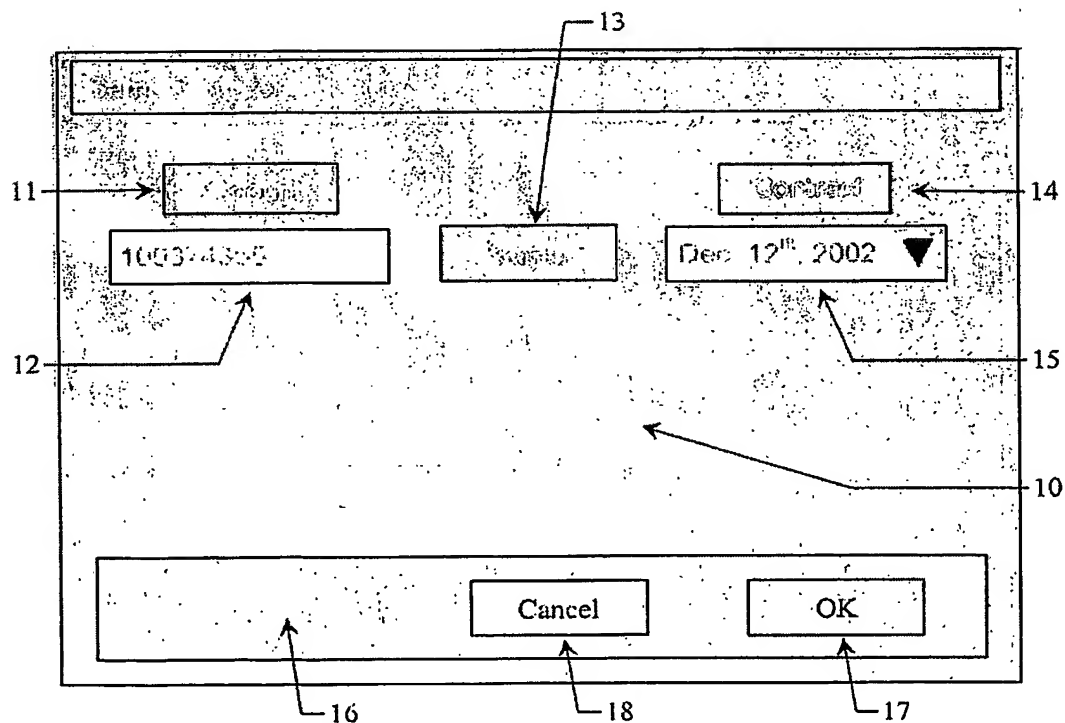


Fig. 4c

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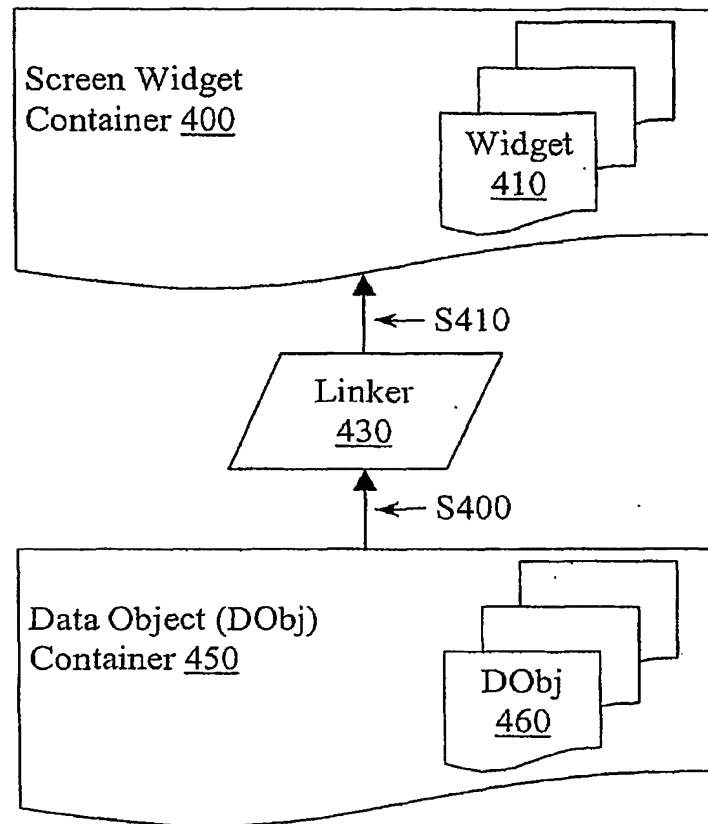


Fig. 5a

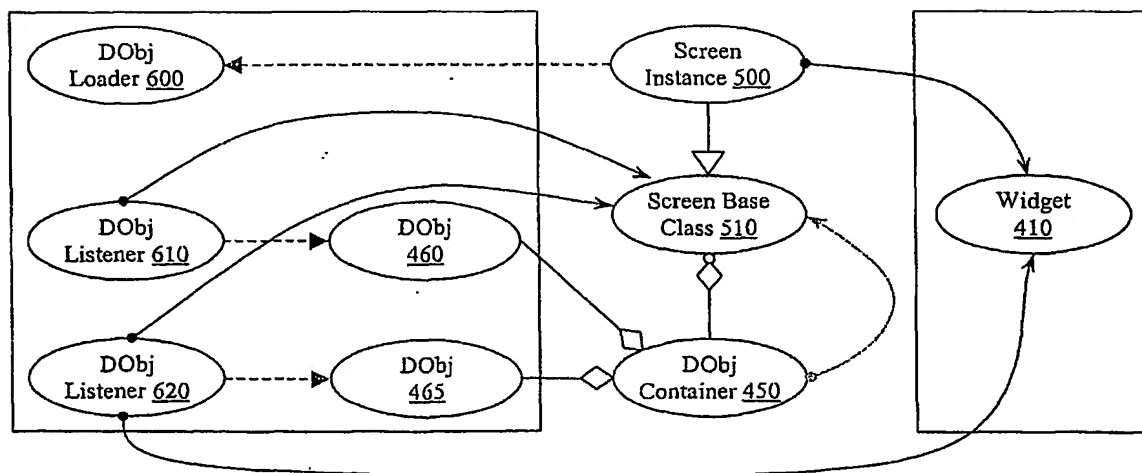


Fig. 5b